MAMYKIN, P.S.; KAYBICHEVA, M.N.

Manufacture and performance of crucibles of induction furnaces made of magnesite with sintering additives. Ogneupory 25 no.7:308-312 '60. (MIRA 13:8)

 Vostochnyy institut ogneuporov. (Cruciples)

MAMTKIN, P.S., doktor tekhn.nauk (Sverdlovsk)

Spodumene and its effect on material having a high alumina content.
Sbor. nauch. trud. Bel. politekh. inst. no.86:106-110 '60.

(MIRA 13:10)

(Ceramics)

5/131/62/000/006/001/001 B117/B104

AUTHORS:

Mamykin, P. S., Zlatkın, S. G.

TITLE:

Card 1/2

Crucibles made of calcium oxide

PERIODICAL: Ogneupory, no. 8, 1962, 376 - 380

TEXT: This is a description of the method of manufacturing calcium oxide crucibles by pouring from alcoholic suspensions into ceramic molds, patented by the Gosudarstvennyy komitet po delam izobreteniy i otkrytiy pri Sovete Ministrov SSSR (State Committee for Inventions and Discoveries at the Council of Ministers USSR) under no. 134399 on March 22, 1961. When manufacturing laboratory crucibles in accordance with FOCT 4660-49 (COST 4660-49) for corundum crucibles, optimum conditions of this process were established: CaO containing 1.5 % TiO2 is obtained as a powder or in the form of pressed briquets (\approx 15 kg/cm²) by calcining at 1500 - 1550°C. From it, slip containing 30 - 35 % by weight of ethyl or butyl alcohol is prepared and poured into ceramic molds. To facilitate the removal of the crucibles, the inner walls of the molds are coated with a thin graphite

layer, resulting in a 90 - 95 % yield of undamaged products. The cruci-

CIA-RDP86-00513R001032110008-5" **APPROVED FOR RELEASE: 03/13/2001**

2023年10年12日20日,1997年11日,1997年1

Crucibles made of calcium oxide

S/131/62/000/008/001/001 B117/B104

bles are fired twice: first in any type of furnace at 1100°C (hourly temperature increase 250 - 300°C) and then for 1 hr in a cryptol furnace at 1650° C. Products made from pure CaO containing 1.5 % TiO_2 may be stored without paraffin coating for about six months in an exsiccator. There are 3 tables.

ASSOCIATION: Ural'skiy politekhnicheskiy institut im. S. M. Kirova (Ural Polytechnic Institute imeni S. M. Kirov)

Oard 2/2

STRELOV, K.K.; MAMYKIN, P.S.; Prinimali uchastiye: BAS'YAS, I.P.;
BICHURINA, A.A.; BRON, V.A.; VECHER, N.A.; VOROB'YEVA, K.V.;
D'YACHKOVA, Z.S.; D'YACHKOV, P.N.; DVORKIND, M.M.;
IGNATOVA, T.S.; KAYBICHEVA, M.N.; KELAREV, N.V.;
KCSOLAPOV, Ye.F.; MAR'YEVICH, N.I.; MIKHAILOV, Yu.F.;
SEMKINA, N.V.; STARTSEV, D.A.; SYREYSHCHIKOV, Yu.Ye.;
TARNOVSKIY, G.I.; FLYAGIN, V.G.; FREYDENBERG, A.S.;
KHOROSHAVIN, L.B.; CHUBUKOV, M.F.; SHVARTSMAN, I.Sh.;
SHCHETNIKOVA, I.L.

Institutes and enterprises. Ogneupory 27 no.11:499-501 '62. (MTRA 15:11)

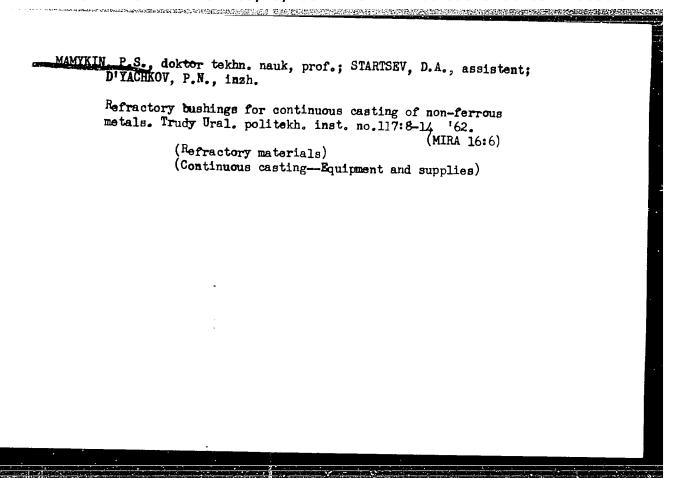
1. Vostochnyy institut ogneuporov (for Strelov). 2. Ural'skiy politekhnicheskiy institut im. S.M. Kirova (for Mamykin).

(Refractory materials—Research)

MAMYKIN, P.S., prof., doktor tekhn. nauk; ZLATKIN, S.G., inzh.

Research in obtaining refractory materials based on wastes from potassium bichromate production. Trudy Ural. politekh. inst. no.117:5-7 '62. (MIRA 16:6)

(Refractory materials)



MAMYKIN, Petr Sergeyevich, doktor tekhn. nauk; LEVCHENKO, Petr Vasil'yevich, kand. tekhn. nauk; STRELOV, Konstantin Konstantinovich, kand. tekhn. nauk; MITKALINNYY, V.I., retsenzent; MIKHAL'SKIY, A.A., retsenzent; BELOV, O.V., red.; SYRCFINA, M.M., red. izd-va; MAL'KOVA, N.T., tekhn. red.

[Kilns and driers of refractory plants]Pechi i sushila ogneupornykh zavodov. [By]P.S.Mamykin i dr. Sverdlovsk, Metallurgizdat, 1963. 471 p. (MIRA 16:2) (Refractories industry—Equipment and supplies) (Kilns)

ACCESSION NR: AR4027925

S/0137/64/000/002/B007/B007

SOURCE: RZh. Metallurgiya, Abs. 2B39

AUTHOR: Mamy*kin, P. S.; D'yachkov, P. N.; Proskurin, Yu. A.; Olyunin, L. Ya.

TITLE: Highly refractory crucibles from fused magnesite for melting special metals in high-frequency furnaces

CITED SOURCE: Tr. Vost. in-ta ogneuporov, vy*p. 4, 1963, 127-130

TOPIC TAGS: magnesite, crucible, refractory

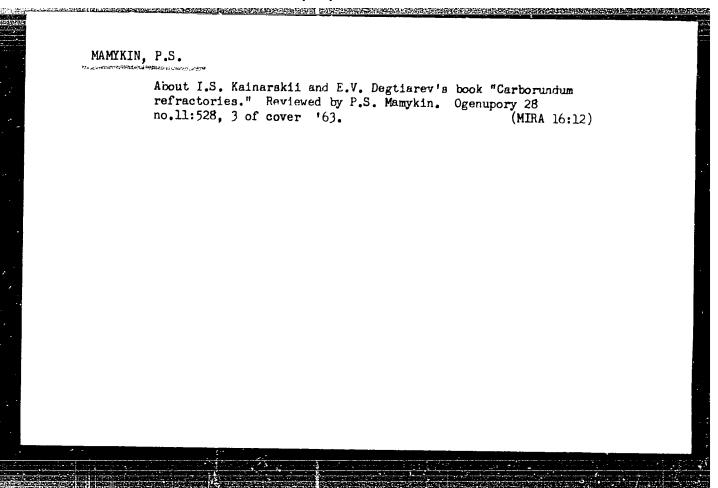
TRANSLATION: Rammed crucibles made of fused magnesite of the following composition (in %): SiO₂, 3.7; Al₂O₃, l.1; Fe₂O₃, 1.94; CaO, 1.6; MgO, 91.6 and a dextrin solution (300 g per liter of water) have a maximum life of 200 meltings, and an average life of 150. A description is given for the process of manufacturing crucibles for melting high-temperature alloys without slag, and also for melting in initial vacuum. N. Molchanov

DATE ACQ: 19Mer64

SUB CODE: ML

ENCL: 00

Card! 1/1

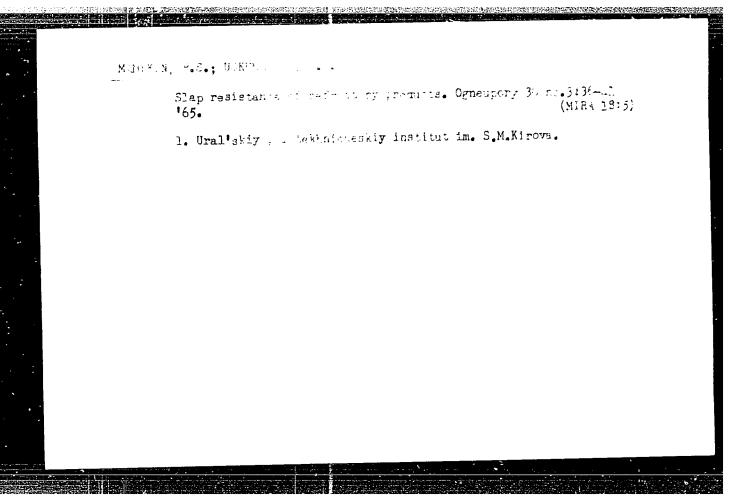


MAMYKIN, F.S.; ANTONOV, G.N.; KACHCHEYEV, I.D.

New method of determining the slag resistance of refractory materials. Cgneupory 30 no.1:37-42 '65.

MIRA 18:3)

1. Ural'skiy politekhnicheskiy institut im. S.M.Kirova.



MAMYKIN, P.S.; USKUMBAYFV, N.U.; RAVDANIS, B.I.; YAKUSHEV, Ye.A.; PSHENBAYEV, R.G.; SIMKIN, E.A.

Testing high-alumina refractories. TSvet.met. 38 no.3:35-36 Mr 165. (MIRA 18:6)

MAMYKIN, S.N. (Kiyev, ul. Yanvarskaya, d.27, kv.170)

Diverticula of the Anchemum. Klin.khit. no.12:37-41 D '62. (MIRA 16:2)

1. Refedra obshchey khirurgii II (zav. - zasluzhemnyy deyatel' nauki, prof. I.I. Kal'chenko) Kiyevekogo instituta usovershenstvovaniya vrachey.

(DUODENUM—DIVERTICULA)

GEVORGYAN, B.A.; KATSMAN, Yu.V.; LIMONOV, G.Ye.; SAMKOV, V.S.; KATKOV, V.P.; VINOGRADOVA, L.V.; MAHYKINA A.D.; POPOV, G.I.; DOROKHOV, A.A.; FALEYEV, G.A., inzh., retsenzent, BOGATAYA, L.M., red.; ZARSHCHIKOVA, L.N., tektn. red.

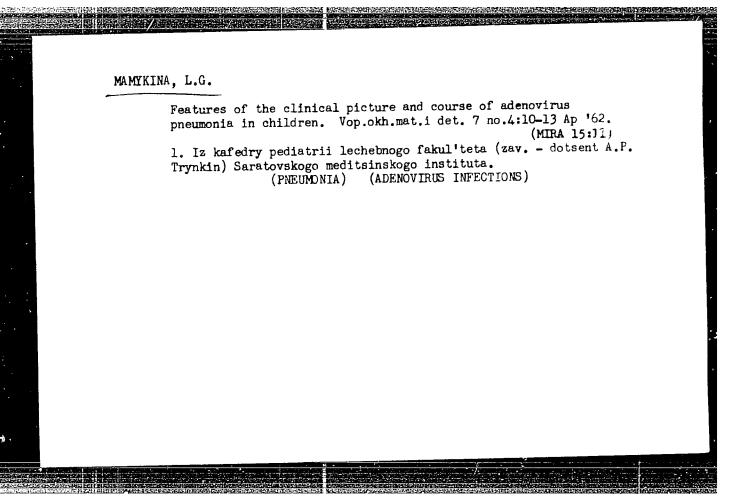
[Press method for meat boning and deveining] Obvalka i zhilovka miasa pressovaniem. [By] B.A.Gevorgian i dr. Moskva, Pishche-promizdat, 1963. 31 p. (MIRA 16:8) (Meat industry—Equipment and supplies) (Sausages)

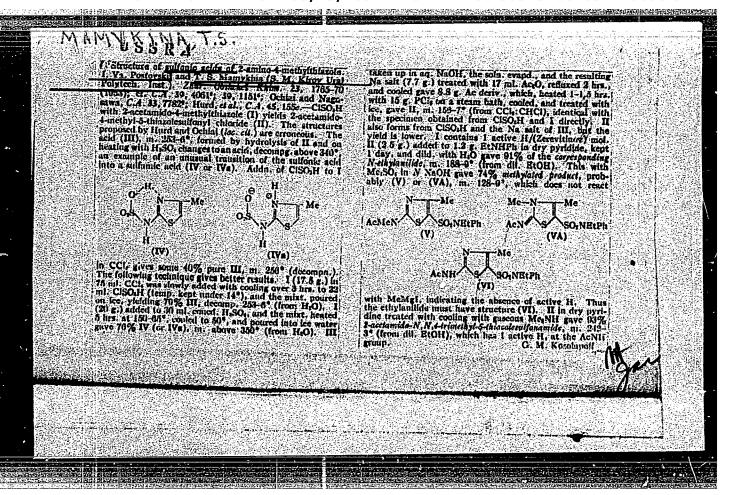
ACC NR: AP5028610 (N) SOURCE CODE: UR/0337/65/000/011/0036/0037
AUTHOR: Yegorov, V. D.; Mamykina, E. M.; Khromov, P. I.; Revzina, F. S.
ORG: MIlmetiz - MKZ
TITLE: Use of polymeric materials for steel cable coatings
SOURCE: Rybnoye khozyaystvo, no. 11, 1965, 36-37
TOPIC TAGS: protective coating, polycaprolactam resin, wire product, connecting cable / LK-O connecting cable, TK connecting cable 1
ABSTRACT: The results of testing steel cables with coatings made of capron material (polycaprolactam resin and fiber) are presented. The best results were obtained with coating films of up to 0.7-mm thickness formed on steel cable cores of up to 6-mm at temperatures of 230, 240, 255 and 260 C. It is mentioned that parkerized core wires have the best adhesive properties (40 kg/sq cm) while vitrified wires have the lowest adhesion (12 kg/sq cm). The effects of various core temperatures (150 to 600 C) on the adhesive and mechanical properties of capron films were studied and a temperature of about 400 C is recommended for preheating of cores. The cables made of coated strands shows the best endurance (3.3 times greater). The test proved that a 0.5-mm film produced a 2 to 3 times increase in cable endurance. A further increase of the film thickness had little effect on the cable endurance. The steel cables with coated strands of LK-0 type (6 x 19 + 7 x 7; d = 25 mm) and of TK type (6 x 37 + 1 core; d = 15 mm) were prepared and successfully used on fishing ships. Their cross-sections are shown. Orig. art. has: 2 figures. SUB CODE: 11, 13/ SUEM DATE: None
Card 1/1

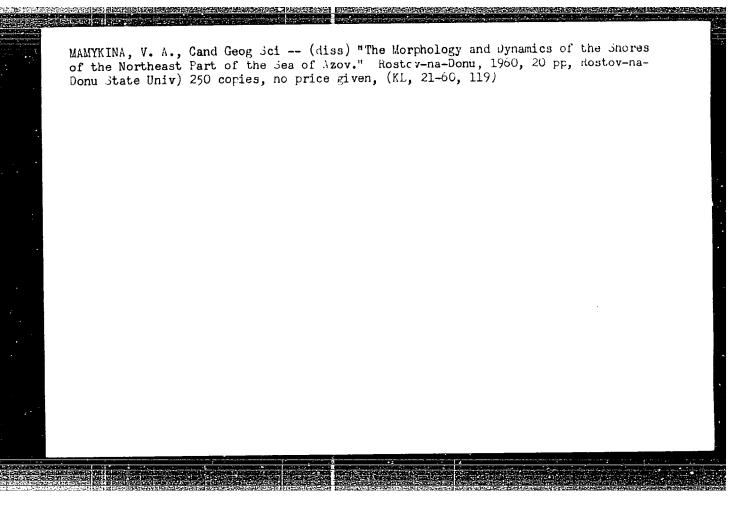
MANYFEMA, Lymbov' Grigor' yevna

Anti*Eacterial Therapeutics of Toxical Pheamonia of Children of Early
Ages

Dissertation for condidate of a Nedical Ocience degree. Chair of dicro-biology
(head, Frof. S.I. Sherishorina` and Moscital Pedictrics (head, Asot. Prof.
7.3. Voronova) Service Hedical Institute, 1954







MAMYKINA, V.A. Shore types in the northeastern part of the Sea of Azov and their dynamic characteristics. Trudy Okean.kom. 8:33-44 '61. 1. Rostovskiy gosudarstvennyy universitet. (Azov, Sea of---Coasts)

PANOV, D.G., prof.; MANYKINA, V.A., kand.geograf.nauk

Can we stop the destruction of the shores of the Sea of Azov?
Priroda 50 no.5:50-51 My '61. (MIFA 14:5)

1. Rostovskiy gosudarstvennyy universitet (for Panov). 2. VolgoDonskoye geologicheskoye upravleniye (Rostov) (for Mamykina).

(Azov, Sea of.—Coast changes)

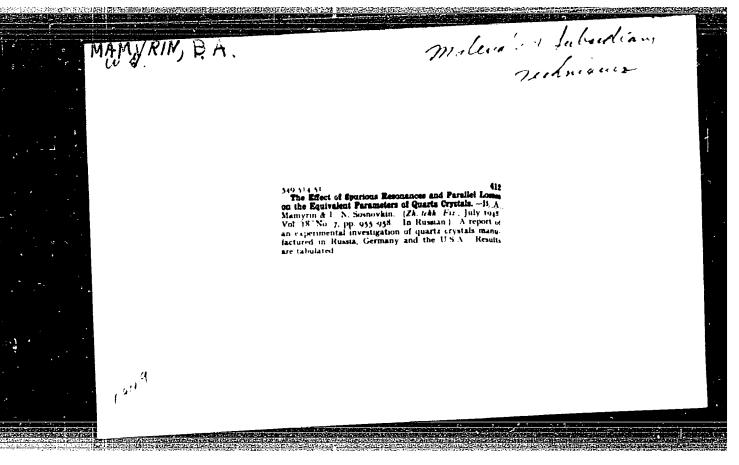
AND THE PROPERTY OF THE PROPER L 44323-66 SWT(1) ACC NRI AP6020984 (N)SOURCE CODE: UR/0213/66/006/003/0451/0457 AUTHOR: Mamykina, V. A.; Khrustalev, Yu. P. ORG: none TITLE: Processes of abrasion and deposition in recent sedimentation, using the Sea of Azov as an example SOURCE: Okeanologiya, v. 6, no. 3, 1966, 451-457 TOPIC TAGS: physical oceanography, oceanter sedimentation, oceantes deposit, bettom deposit, shoreline erosion, bottom recein ABSTRACT: Two organizations, the Rostov-on-Don State University (1959-1963) and the Institute of Oceanography, AS USSR (1939-1961) have investigated core samples taken from the bottom sediments of the Sea of The thicknesses, grain-size, and composition of the most recent and contemporary deposits were analyzed specifically to determine rates and locations of erosion and deposition. Results obtained were compared with information obtained from bathymetric charts of the area, which incorporated information collected during the 1803-1956 period. Rates of recent epeirogenic movements were determined by geological and geomorphological methods and were checked against repeated leveling measurements. The area was divided into three characteristic regions: Card 1/2 UDC: 551,351(262,56)

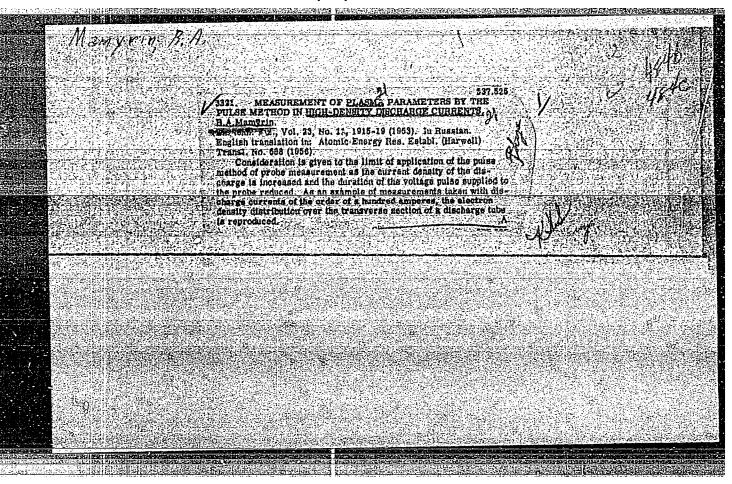
1 44324-66 ACC NR: AP6020984 maximum deposition (Taganrog Bay), light deposition (belt around the shoreline subjected to wind erosion, in which the deposits reach depths of 6-10 m), and a zone subject to constant hydrodynamic erosional processes (circumshoreline zone, with deposits reaching depths of 6-7 m). Major erosion and deposition characteristics detected were: recent accumulation of sediments in the eastern and western portions of the bas's (ettributed to irregular movements along faults during the early development stages, subsequently exposed to hydrodynamic erosional forces, controlled by structural movements) and intense shoreline and bottom abrasion (caused by shallow-water erosion of upfaulted blocks which continued to supply coarse abrasive materials as scouring agents). Orig. art. has: 3 figures and 2 tables. SUB CODE: 08/ SUBM DATE: 24Nov65/ ORIG REF: 012/ Card 2/2 blg

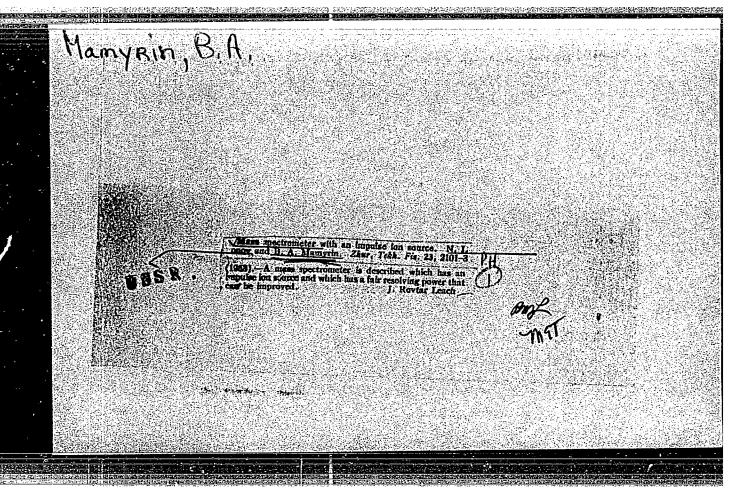
ZHUNUSOV, T.Zh.; MAMYRIN, A.V.

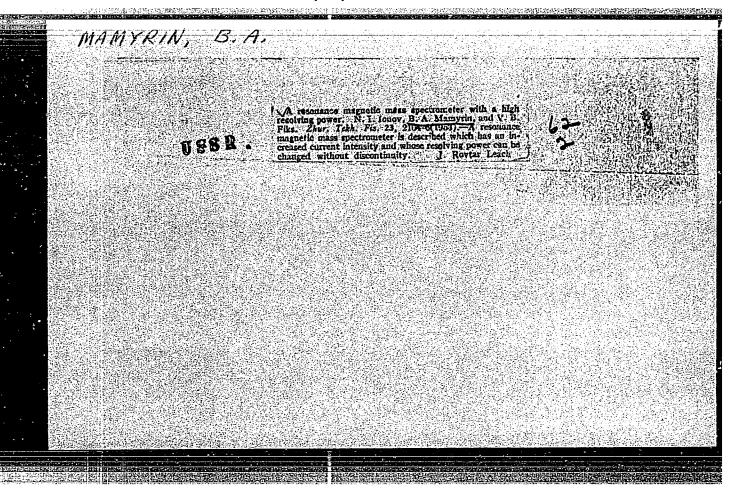
Method of testing bent reinforced elements by repeated
increasing impact. Trudy Kazakh. fil. Asia no.2:76-83 '60.
(MIRA 15:2)

(Precast concrete—Testing)









Н

L' Burney a 11 B. F.

USSR / Electronics

Abs Jour : Ref Zhur - Fizika, No 4, 1957, No 9865

Author

Mamyrin, B.A.

Inst

Leningrad Physico-Technical Institute, Academy of Sciences USSR, Leningrad

Title

: High Vacuum Metal Seal, Permitting a Large Number of Closings.

Orig Pub : Pribory, i tekhn. eksperimenta, 1956, No 1, 97-98

Abstract : Description of a dismountable metallic vacuum seal, whose sealing tooth has a profile of a swalloe tail and enters into a rectangular groove with metal liner. This results in a minimum squeezing of the sealing metal through the lateral gaps and provides two sections on the surface of the tooth, under which the lining experiences deformation, thus insuring good hermeticity. Tests made on this construction in a vacuum valve, connecting the atmosphere

Card

: 1/2

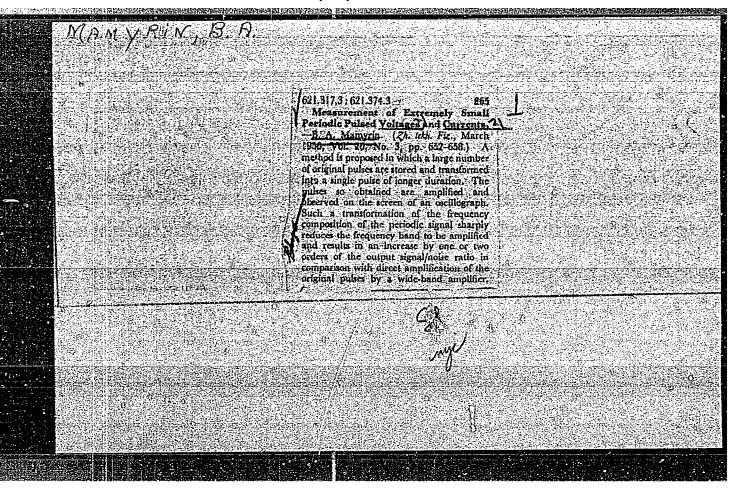
USSR /Electronics

Abs Jour : Ref Zhur - Fizika, No 4, 1957, No 9865

Abstract : with a volume pumped out by means of an oil diffusion pump with a trap, filled with liquid air, have shown that it is possible to produce in the volume a vacuum up to 10^{-7} mm mercury. In a volume of 0.5 liters separated from the atmosphere by the tested valve, a vacuum was maintained for days at approximately 10-5 mm mercury. The operation of the valve did not deteriorate after 300 closings and openings.

Card 1 2/2

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110008-5



120-3-21/40

AUTHORS: Kalinkevich, I.F. and Manyrin, B.A.

TITLE: A Generator of Delaye Pulses with Automatic Change of the Delay Time (Generator Gaderzhannykh impul'sov s avtomaticheski izmenyayenym vremenen zaderahki)

PERTODICAL: Pribory i Tekhnika Eksperimenta, 1957, Nr 3, pp.75-30

ABSTRACT: The generator gives two output voltage pulses. The first is a periphically repeating pulse of 0.1 usec. duration and 20 V amplitude; the repetition frequency is 20-40 kc/s (or any frequency below 60 kc/s when externally synchronized). The second nulse is the same as the first but is delayed on the first by a time which can be automatically changed, the change occurring over a period variable from 0.02 sec. to 5 min. After two examples of the application of such a generator, the block diagram (Fig. 3) is described. Driving pulses are produced by the blocking oscillator 1, the output transformer of which has two output windings. From these windings 2 µsec. duration pulses are passed to the input of the delay line 2 (first channel) and to the input of the phantastron 5 (second channel). The pulses are de-layed in the delay line by 8 usec. and after shaping and Cand 1/3

CIA-RDP86-00513R001032110008-5"

APPROVED FOR RELEASE: 03/13/2001

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Assistant of Delay deal as distant ratio Shange of the Delay story.

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erightly flowed life elegant (Fig.5). V. A. Z Julin States refer to the configures of 5

A MODDIATION: Physical and the Indicate, As do My of Johnson, Mark. (Figure-1997) and the institut And June.

AVAILABLE: 111 - 27 35 140 50.

75 1. Pulse generators-Operation 2. Delay line-Circuits

MAMYRIN, P

AU MOR4

57-6-29/36

TITLE:

MAMYRIN, B.A., BHULTROV, B.B. Mass-Spectrometer with Resolving Power of the Order of Jeveral Thousands. (Mass-spektronetry s razreshayushchey siloy v

neskol'ko tysyach, Russian)

PERIODICAL:

Zhurnal Tekhn. Fiz., 1957, Vol 27, Nr 6, pp 1347 - 1356

(U.S.S.R.)

ABSTRACT:

It is shown that a pulse-resonance-mass-spectrometer can be used as an analytical device for gas-analytical purposes with a resolving power of several thousands. In order to realize this possibility the light intensity and sensitivity of the device were considerably increased 1) by the method of collecting ions in the source, 2) by the application of a specially developed generator of millimicroseconds-pulses with an increased sequence of frequencies, 3) by clarifying the basic causes of the occurrence of a remaining current and elaboration of a measuring system for its removal. With respect to the production and adjustment the device developed is more simple than those with double focussing and with a non-uniform field. One of the advantages offered by the device is the possibility of regulating the resolving power without effecting any changes in the vacuum chamber. This is possible by selecting the suitable number of revolutions by the frequency transformation of generator pulses.

Card 1/2

CIA-RDP86-00513R001032110008-5" APPROVED FOR RELEASE: 03/13/2001

Kass-Spectrometer with Resolving Power of the Order of Several Thousands.

57-5-29/36

In the case of a reduction of the resolving power the light intensity of the device is increased. An important property of the device when used for purposes of analyses is the lack of "tails" or "trains" on the basis of the curves of mess points. and 6 Slavic references)

frequency

ASSOCIATION: LFTI of the Academy of Science of the U.S.S.R. electrometer

SUBMITTED:

3.3.1957

AVAILABLE:

Library of Congress

Card 2/2

6(4) AUTHOR:

Mamyrin, B. A.

SOV/108-13-11-5/15

TITLE:

The Production of Millimicrosecond Pulses With High Repetition Frequency (Generirovaniye millimikrosekundnykh

impul'sov s vysokoy chastotoy sledovaniya)

PERICDICAL:

Radiotekhnika, 1958, Vol 13, Nr 11, pp 27-38 (USSR)

ABSTRACT:

A method for the production of millimicrosecond pulses with a repetition frequency of an order of magnitude of several megacycles is investigated for a voltage of several hundred volts. A method for the technical calculation of a generator of such pulses is elaborated. The operational data of the tubes of the output cascades are given. From the given table and from the data obtained by calculation it may be seen that relatively small tubes (e. g. \$\mathbb{GJ}=29\)) may operate as output tubes of a generator of millimicrosecond pulses at a repetition frequency of the pulses of several megacycles. A pulse-voltage at a load capacity of several dozens of Picofarad may attain several hundred volts. The description of the generator of millimicrosecond pulses with a repetition frequency of several megacycles

Card 1/2

The Production of Millimicrosecond Pulses With High Repetition Frequency

SOV/108-13-11-5/15

will be given in a separate paper. The generator was developed in the LFTI AN SSSR. I. F. Kalinkevich took part in the investigation of tube operation. There are 10 figures, 1 table,

and 16 references, 11 of which are Soviet.

SUBMITTED:

February 13, 1958

Card 2/2

ANUFRIYEV, G.S.; ZAGULIN, V.A.; MAMYRIN, B.A.

Cathode current stabilizer. Prib.i tekh.eksp. 6 mo.5:118-120
(MIRA 14:10)
S-0 '61.

1. Fiziko-tekhnicheskiy institut AN SSSR.
(Voltage regulators)

20073

9.3279

AUTHOR:

Mangerin, B. A.

FITLE:

Amplication of persons low-college signals

PERISTICAL: Redictakhnika, v. of. n. 3, 96 . 17 57

TEXT: The sucher of one amplitudence of periodic wide-band signals of low coltage in tries to cluerve their forms by means of an oscilloscope It is shown that in the method the signal-to-noise ratio can be consider-It is shown that in the method the stangleto-holse ratio can be considerably improved. The cold is increased by means of the strobescopic conspension of the frequency ejectrum of the signal. This method was presented by the author in the angles (Ref. 2: ZhTF, Vol. 26, No. 3, 1956). form. He ills reserves the way of ever-oming the main difficulty in this method, i.e., the effect of low frequency flustuations. The principle of the conversion of the pestrum of a periodic algoric consists in the collowing: The periodic eightly reaches the applifter input through a controlled dwalver. The signal can pass through this yaive only during a short period which is determined by the opening pulse (the initial signal Card 1/6

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20073

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Amplification of periting a collage

may have any firm arring this jerich. During our genies of the signal the smallest opens of the wife to like legisling of the signal periods. The amplifier is connected tehing the smallest the passes reading the amplifier input is chosen both that the envelope it the passes reading the amplifier input is apparated. This envelope reproduces the form of the initial signal to a sertain extent. The shape of those of tages in the various sections of the conserver is shown in Fig. 1. The solving period at the output of the system (Fig. 3) is by $T_{\rm U}/T_{\rm S} = t_{\rm mS}/t_{\rm mU}$ time. Under than the period of the initial signal (their spectra are similar). $T_{\rm S}$ is the period of the initial signal (their spectra are similar). To be inverted signal; $t_{\rm mS}$ is the maximum frequency of the initial signal of the passes of the initial signal of the initial signal of the initial signal of the spectrum the observed signal of the initial signal of the gain obtained must be valuated with the signal than its ratio. For this

Card 2/4

Amplification of periodic low-voltage

S 108 (61/016/003 (005/006) B 16/B205

purpose the theorem by V. A. Kotelinikov (Ref. 3) is used. When transmitting a signal with the maximum frequency f_{mS} of the spectrum it is sufficient, to transmit the values of this signal which differ from one another by the following period of time:

 $\Delta t \leq \frac{1}{2f_{mS}}$; $\Delta t_{max} = \frac{1}{2f_{mS}}$ (2)

Hence, it may be concluded that the shift of the opening pulses (strobe step) of the "valve" is tound to be smaller than Δt_{max} : $T_0 - T_S \leqslant \Delta t_{max}$. Formula A = $\sqrt{\Delta t_{max}}$ / T_0 is obtained for the mentioned gain A. T_0 is the

Card 3/6

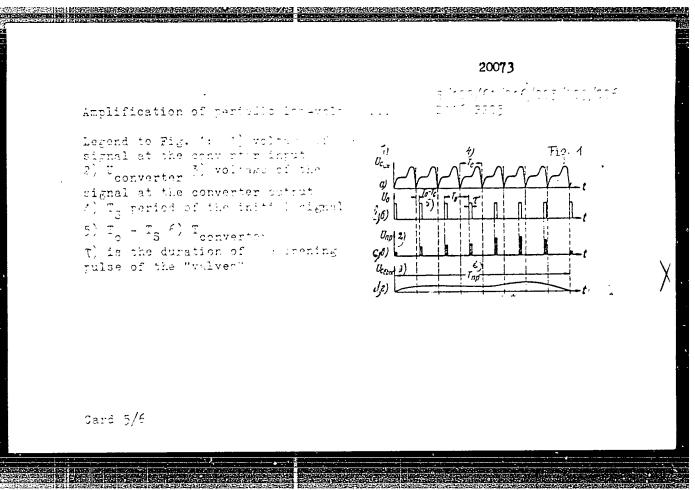
s/108/6:/0:6/003/005/106 B1:6/B205

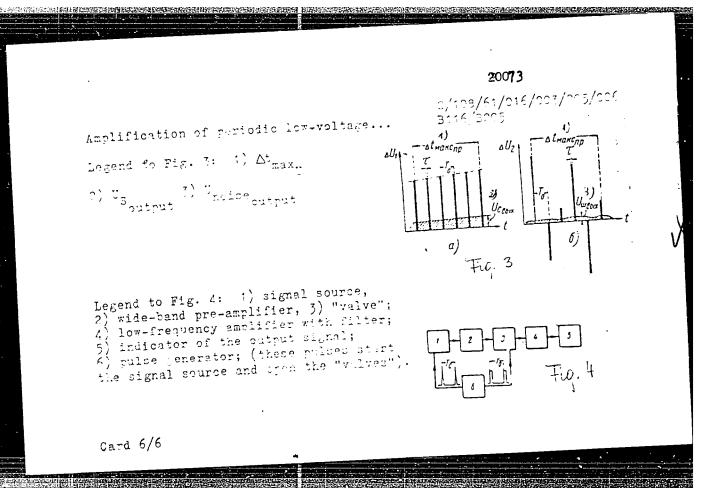
Amplification of seriodic low-voltage

level of some nundred microvolts. The block diagram shown in Fig. 4 is recommended for the reduction of the threshold of the stable amplification of the complete device. To increase the signal level at the converter input it is expedient to pre-amplify the weak signal (before it reaches the converter) and the white noise by which it is accompanied by means of a wide-band amplifier. The low frequencies which are smaller than the maximum figure must not pass through this amplifier. The method of amplifying a periodic signal offers the possibility of observing the practically undistorted shape of the signal. With a high pulse repetition frequency of the periodic signal this method also makes it possible to increase the signal-to-noise ratio considerably (by hundred to thousand times). On principle, such signals cannot be amplified by means of wide-band amplifiers. This method further offers the possibility of amplifying and observing the signal with a very wide frequency spectrum by means of a low-frequency apparatus. There are 4 figures and 5 Soviet-bloc references.

SUBMITTED: February 8, 1960

Card 4/6





9,2570

5/108/61/016/009/001/002

D202/D306

AUTHORS:

Anufriyev, G.S., and Mamyrin, B.A.

TITLE:

Experimental study of the white noise suppression

in stroposcopic amplification

PERIODICAL: Radiotekhnika v. 16, no. 9 1961 10 - 18

TEXT: In the present article the authors present the results of experimental work undertaken to confirm the theoretical assumptions of B.A. Mamyrin (Ref. 6: Radiotekhnika vol. 16 no.3 1961) that the stroboscopic method of amplification permits for a much better S/N ratio at the output as compared with that at the input of the system; that a signal be registered at a level which is much lower than the noise level of wide band amplifiers and that reception is possible of a very noisy wide band signal with a high S/N ratio adequate to determine all signal parameters. The mathematical expression for the increase in the signal to noise ration A with stroboscopic detection as given in Ref. 6 (Op.cit.) is eq. (1).

Card 1/8

2h⁸59 S/108/61/016/009/001/002 Experimental study of the white... D202/D306

$$A = \frac{\left|\frac{U_{s}}{U_{n}}\right|_{out}}{\left|\frac{U_{s}}{U_{n}}\right|_{1n}} = \sqrt{\frac{F_{s}}{2 f_{max}}_{tr}}$$
(1)

In it $|V_s|$ in - the ratio of the signal noise to voltage at the input; $|V_s|$ - the ratio of the signal to noise voltage at $|V_n|$ out

output F_s - frequency at which the resulting signal is being sampled $f_{max}{}_{tr}$ - the maximum frequency of the spectrum of the

transformed signal. To simplify the calculations Eq. (1) may be rewritten as eq. (2)

Card 2/8

\$/108/61/016/009/001/002 D202/D306

Experimental study of the white...

$$A = F_S = \frac{T_{tr}}{2f_{max_{SD}}}$$
 (2)

where T_r - period of registration of the transformed signal (time used for registering one period of the signal at the system output); $f_{\hbox{max}_{\mbox{sp}}}$ - maximum frequency of the resulting

signal spectrum. T_r should be long enough for the input signal during this time to remain practically constant. To check the above equations experimentally an arrangement permitting for large variations in A has to be used (of the order of 1000), hence the following parameters of the resulting signal were chosen $F_s = 150 \text{kc/s}$ $f_{\text{max}_{sp}} = 5 \text{ Mc/s}$. The other important

parameters were chosen from the following considerations. For accurate measurement of resulting levels of signal and noise,

Card 3/8

24859

both signal and noise at the input should be at considerable voltage levels. Since for $\left|\frac{U_S}{\Pi}\right| \geq 10$ the registration of the

S/N at the output produces already considerable errors for large A, U_n is still more increased. The measuring arrangement has been, therefore, designed so as not to produce any noticeable distortion with the voltage during an input of 10V. The choice of duration γ_0 of the pulse, gating this circuit was determined by the requirement of undistorted signal shape at the output according to (Ref.6: Op.cit.) $\gamma_0 < \frac{1}{2f_{\text{max}_{SD}}}$, the bloc diagram

of experimental circuitry for effective noise attenuation is given. The results of the experiment are shown by the oscillograms, for which the rise time of input pulse signals \approx 0.2 microsecond, pass-band at the input \approx 5Mc/s the evaluated increase in S/N ration $A\approx$ 270; $T_{\rm tr}\approx$ 32 sec. The same arrangement was used for a series of measurements of quantity $A\left[A=\varphi(VT_{\rm tr})\right]$

Card 4/8

S/108/61/016/009/001/002 D202/D306

Experimental study of the wnite...

for a different T_{tr} and F_s and f_{mtr} . The experimental error did not exceed 10%. In detecting by the above method very small level signals difficulties arise due to low frequency fluctuations in the detecting and L.F.Circuits. To overcome it the absolute level of the signal at the input should be increased by a wide band amplifier (LNTY) (ShPU) inserted between the signal source and the converter. Thus connected, the wide band amplifier does not affect the noise of the system. If the signal source is a current generator with internal resistance R_i - ∞ then by applying an anti-interference circuit, the noise level may be reduced to that produced by the equivalent noise resistance of the valve R_{nv} of the first stage of amplification of a simple anti interference cct or to half the level of that noise in complex circuits (Ref. 9: V.L. Kreytsev, Videousiliteli (Video Amplifiers), Izd. "Lovetskoye radio" 1952); (Ref. 10: 0.B. Lure, Usiliteli videochastoty (Video Frequency Amplifiers), Izd. "Sovetskoye radio" (1159)) with such an amplifier an additional improvement A' of the S/H ratio can be obtained.

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Card 5/8

24859

S/108/61/016/009/001/002 D202/D306

Experimental study of the white...

$$A^{+} = \frac{U_{n_{tr}}}{U_{n_{wb}}} \approx 2 \sqrt{\frac{R_{n_{tr}} + R_{in}}{R_{n_{v}}}}$$
 (3)

in which U_{ntr} the noise level of converter reduced to the input, U_{n} - same of tre wide band amplifier. Juice multi-electrode valves are used except for a triode in the first stage of while band amplifier $\frac{R_{ntr}}{R_{n.v}} \approx 10$ and $A^{\rm T} \lesssim 6$.

If the signal is from a voltage generator $(R_1+ \textbf{5},\alpha)$ the anti-interference cannot be used and the improvement in A" is approx-

Card 6/8

24859 5/108/61/016/009/001/002

D202/D306

Experimental study of the white...

imately $A'' = \frac{U_{n_{br}}}{U_{n_{wb}}} \cong \sqrt{\frac{R_{n_{tr}} + R_{ln}}{R_{n_{v}} + R_{ln}}} \quad \text{and} \quad A'' \approx 1 \approx 3.$ (4)

In the experiment a wide band commercially produced wide band amplifier type Mu-10 (USh - 10) was used, with an additional preamplifying stage. The wide band part of the arrangement had the following parameter: pass band 0.1 5 Mc/s the effective noise level at the input 20 microvolt, maximum gain 250,000. The block diagram of the whole arrangement is given. Finally the possibility of obtaining a very high S/N ratio (of the order of 100) at the output of system was investigated. It is stated in conclusion that the obtained improvement figures are by no means final and that the arrangement used did not require any additional adjustments during its operation and that the discussed method of detection could be recommended for designing compact instruments when solving many scientific and technical problems. There are 7 figures and 12 Seviet-bloc references.

+

Card 7/8

S/120/62/000/001/022/061 E140/E463

AUTHORS: Mamyrin, B.A., Anufriyev, G.S., Kalinkevich, I.F.

TITLE: High-repetition-rate millimicrosecond pulse

generator

PERIODICAL: Pribory i tekhnika eksperimenta, no.1, 1962, 99-101

TEXT: A straightforward pulse generator based on amplification of sine waves, clipping and differentiation, using vacuum tube techniques, is described. The input frequency may be varied between 10 kcs and 2 Mcs, output pulse amplitude up to 200 V (output impedance not mentioned), pulse width 5 ns at half-amplitude points. There are 3 figures and 1 table.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN SSSR

(Physicotechnical Institute AS USSR)

SUBMITTED: June 2, 1961

Card 1/1

39162 5/120/62/000/003/028/048 E032/E114

AUTHORS:

Mamyrin, B.A., and Frantsuzov, A.A.

TITLE:

A high-resolution resonance mass spectrometer

PLKIUDICAL: Pribory i tekhnika eksperimenta, no.3, 1962, 114-119

A high-resolution spectrometer is described in which PEKT: the ions are separated according to their time-of-flight in a uniform magnetic field. The device is similar in principle to that described by L.G. Smith and C.C. Damm (Rev. Scient. Instrum., 27, 1956, 638). In distinction to the latter device, in the present spectrometer the ion beam is swept from the centre to the periphery, so that the beam can be extracted and an ordinary electron multiplier can be used as a detector. A single-turn orbit is employed so that the effective magnetic field can be determined more accurately, and a grid modulator is used so that a more uniform field can be produced at small distances between the modulator electrodes. The device is illustrated schematically in Fig.1. The current at the output is recorded with the aid of an open-input electron multiplier, as shown in Fig. 5. instrument operates in the mass range M/e = 10 - 40. Card 1/3 ~

S/120/62/000/003/028/048
A high-resolution resonance mass ... E032/E114

The resolution is of the order of 25,000 to 35,000 at a dispersion of 300 to 500 mm per 1% mass change. There are 6 figures.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN SSSR (Physicotechnical Institute AS USSR)

SUBMITTED: November 5, 1961

Card 2/8 -

S/120/62/000/005/023/036 E032/E314

AUTHORS:

Mamyrin, B.A. and Mustrov, B.N.

TITLE:

High-resolution mass-spectrometer with a two-stage

time-of-flight separation of ions

PERIODICAL:

Pribory i tekhnika eksperimenta, no. 5, 1962,

135 - 141

TEXT: This is a continuation of previous work reported by the authors in Ref. 7 (Zh. tekhn. fiz., 1957, 27, 6, 1347) and by the second of the present authors in Ref. 8 (Zh. tekhn. fiz., 1960, 30, 7, 860). The resonance mass-spectrometer described in the former paper suffers from various disadvantages, of which the main are 1) the presence of harmonics so that several peaks corresponding to a given mass may be obtained at different repetition frequencies applied to the modulator and 2) low output currents. The instrument reported in this paper was designed in order to minimise these disadvantages. The spectrometer is illustrated schematically in Fig. 1. The ion source N has been described by the present authors in the first of the above two papers. It is a pulsed source in which the Card 1/K3

5/120/62/000/005/023/036

High-resolution mass-spectrometer.. E032/E314

ion build-up occurs between extracting voltage pulses applied to the reflecting electrode 1. Ion bunches are accelerated by the electrostatic field 2 and enter the metal dee \bigwedge , which is maintained at a positive potential relative to the walls of the chamber. The ions receive an additional acceleration in the field 3, so that they miss the source and enter the modulator M. The length of the ion bunches reaching the modulator is the same as at the source. The ions experience a trapezoidal voltage pulse in the modulator and are accelerated so that they leave the dee and enter the slit ${\bf S}_1$. Ions

leaving S_1 have an energy spread due to its finite size. This energy spread is balanced when the ions re-enter the modulator for the second time and are accelerated by the tail of the trapezoidal voltage pulse, the time of flight being chosen appropriately. Hence, in the final part of their orbit, they travel on circles of equal radius $\frac{1}{2}$ and finally enter the output slit S_2 . The total ion energy after the two

S/120/62/000/005/023/036

High-resolution mass spectrometer.. E032/E314

accelerations in the modulator depends on the relation between the time of flight in the drift orbit and the repetition frequency of the oscillator. Controlled variation of this frequency within a small range gives rise to a small change in the total energy increase and, correspondingly, in the radius 2. In this way, the ion beam may be swept across the

slit S_2 , giving an ion-current peak. The magnetic field is produced by a permanent magnet (600 - 2 900 0e), in which the field is adjusted by suitable magnetic shunting. The resolution of the spectrometer R (50%) is better than 10 000. The spectrometer is designed for the range m/e = 3 - 36.

Fig. 53 shows the resolution obtained for the

H¹C1³⁵ - Ar³⁶ doublet. There are 7 figures.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN SSSR

(Physicotechnical Institute, AS USSR)

SUBMITTED: October 30, 1961

Card 3/43

MAMYRIN, B.A.; ANUFRIYEV, C.S.; KALINKEVICH, I.F.

Generator of millimicrosecond pulses with a high following frequency. Prib.i tekh.eksp. 7 no.1:99-101 Ja-F '62. (MIRA 15:3)

1. Fiziko-tekhnicheskiy institut AN SSSR. (Pulse techniques(Electronics))

38467 3/109/62/007/006/012/024 D271/D308

9,4340

Mamyrin, B. A. and Karatygin, V. A.

: حدد ا

au Phono:

Study of reverse conductance effect in junction diodes with a view to its application for new pulse circuits

PERIODIUAL:

Radiotekhnika i elektronika, v. 7, no. 6, 1962,

1014-1016

TUXT: The transition period is divided into two stages: in the first stage () voltage on the diode is approximately the same as when current was flowing in the forward direction and the diode presents a short-circuit; in the second stage (T_2) current is determined by the diffusion of minority carriers towards the junction and the glode must be treated as a generator of decreasing current; after $\mathbb{Z}_1+\mathbb{Z}_2$ diode resistance becomes that determined by static characteristics. A fundamental equation describing the transition

period is obtained assuming that maximum diffusion current depends only on the number and distribution of minority carriers and not Card 1/2

study of reverse ...

3/103/62/007/006/012/024

on the voltage. Then dioue current changes linearly from forward to reverse airection, To is equal to half-lifetime of minority carriers. The circuit is shown for the experimental checking of the dependence of 1 on the ratio of forward/reverse current with both currents constant; results of measurements are shown in a graph. The junction diode can be used as a generator of very small time intervals (down to a few nanoseconds) by making use of the dependence of 1, on the above current ratio. The independence of current on diode voltage in the second stage permits generating in an external circuit pulses of desired shape, independently of Lifts active in the circuit. A circuit for the generation of short pulses is shown which was tried in the kc/s - Mc/s range. There are 12 figures.

ASSUCIATION: Piziko-tekhnioneskii institut im. A. P. Joife AN JUUR (Physical and Technical Institute im. A. P. Joffe,

AS USSR)

Jun...ITMED: Gard 2/2

July 12, 1961

MAMMIRIN, B.A.; FRANTSUZOV, A.A.

High-resolution resonance mass spectrometer. Prib. i tekh. eksp.
7 no.3:114-119 My-Je '62. (MIRA 16:7)

1. Fiziko-tekhnicheskiy institut AN SSSR.

(Mass spectrometry)

L_15674-65 EWT(2)/EWT(m) ASD-3/DIAAP/ESD(95)/ESD(t)/AEDC(b)/AS(mp)-2

ACCESSION NR: AP4047480

S/0120/64/000/005/0150/0157

AUTHOR: Anufriyev, G. S.; Mamy*rin, B. A.

TITLE: Time-of-flight mass spectrometer with a stroboscopic conversion of the

output signal A

SOURCE: Pribory* I tekhnika eksperimenta, no. 5, 1964, 150-157

TOPIC TAGS: mass spectrometer, time-of-flight spectrometer

ABSTRACT: A new spectrometer is described in which no magnet is used, a large-area ion source is applicable, and a panoramic spectrum can be obtained in a few microseconds. The spectrometer sensitivity and inertia can be adjusted in a wide range. The estimated sensitivity was 10^{-15} torr (partial pressure of nitrogen in the source) in recording a group of residual peaks near the mass number 28 during 100 sec; the measured sensitivity was 10^{-19} torr. Most experiments were conducted with these parameters of the spectrometer: repetition frequency of pushing pulses, 50 kc; energy of the drift-space incoming electrons, 1,000 ev; energy of ionizing electrons, 75 ev; duration of

Card 1/2

L 15674-65

ACCESSION NR: AP4047480

pulses propelling the ions from the ionization space into the drift space. I microsec: source window area, 3 cm²; time of flight in the drift space for an ion with a mass number 300, 20 microsec. The stroboscopic system of signal conversion is, in fact; a stroboscopic oscillograph capable of recording periodic signals with a repetition frequency of 20-100 kc and a spectral bandwidth of 30 Mc; minimum signal voltage, 5×10^{-8} y; recording time, 0.01 sec to 30 min. Block diagrams, a connection diagram of the converter, and a few sample oscillograms are presented. "The authors are deeply grateful to V. R. Regel for his constant attention and help in the work, and also to O. F. Posdnyakov who performed the initial alignment of the spectrometer." Orig. art. has: 8 figures and 7 formulas,

ASSOGIATION: Fiziko-tekhnicheskiy institut AN SSSR (Physico-Technical Institute, AN SSSR)

SUBMITTED: 26Apr64

ENGL: 00

SUB CODE: GP. EC

NO REF SOV: 011

OTHER: 005

Card 2/2

ACCESSION NR: AP4018378

5/0120/64/000/001/0121/0123

AUTHOR: Anufriyev, G. S.; Afonin, O. F.; Mamy*rin, B. A.

TITLE: Suppression of noise accompanying the nuclear-magnetic-resonance

signal of a magnetic-field meter

SOURCE: Pribory* i tekhnika eksperimenta, no. 1, 1964, 121-123

TOPIC TAGS: nuclear magnetic resonance, magnetic field meter, IMI-2 meter, noise suppression, stroboscopic noise suppression, magnetic field measurement

ABSTRACT: The use of a synchronous detector enhances the accuracy of the magnetic-field measurement but impairs the signal shape. To avoid the latter shortcoming, a stroboscopic method of noise suppression is advanced. The stroboscopic device (its functional and simplified electrical diagrams are supplied) ensures a 5-50 times higher signal-to-noise ratio and yields an output signal whose shape corresponds to the shape of the original signal but in a

Card 1/2

ACCESSION NR: AP4018378

different time scale. A provision is made for turning the stroboscopic device into a synchronous detector when warranted by experimental conditions. An IMI-2 magnetic-field meter and an ENO-1 oscilloscope are used. The maximum repetition frequency at the IMI-2 output is 270 kc. Orig. art. has: 3 figures and 1 formula.

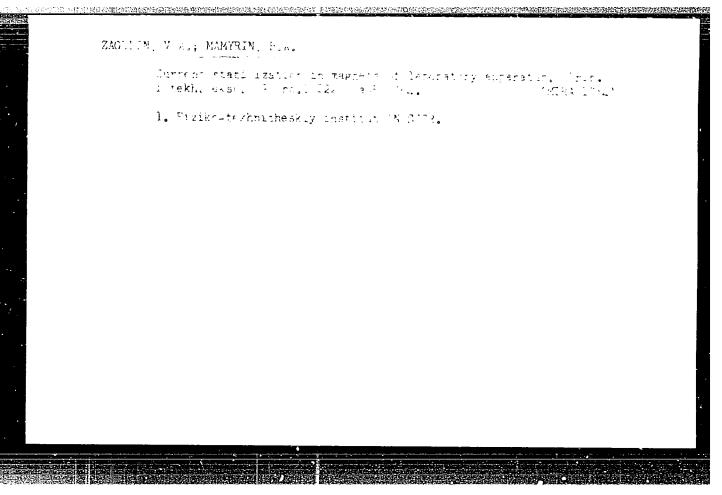
ASSOCIATION: Fiziko-tekhnicheskiy institut AN SSSR (Physico-Technical

Institute, AN SSSR)

SUBMITTED: 22Mar63 DATE ACQ: 18Mar64 ENCL: 00

SUB CODE: NS NO REF SOV: 002 OTHER: 000

Card 2/2



L 18261-65 EWT(m) DIAAP/SSD/SSD(c)/APWL/AS(mp)-2

ACCESSION WR: AP5000911

8/0020/64/159/004/0777/0778

AUTHOR: Mamyrin, B. A.; Frantsuzov, A. A.

TITLE: New measurement of the proton magnetic moment

SOURCE: AN 888R. Doklady, v. 159, no. 4, 1964, 777-778

TOPIC TAGE: proton, magnetic moment, apin precession, hydrogen nucleus, ion cyclotron frequency, Paradey number

ABSTRACT: The cyclotron frequencies of the ions He⁺, Ne⁺, and Ne⁺ were measured with a magnetic-resonance mass spectrometer described by the authors elsewhere (Priboryt i tekhn, eksp.; No. 3, Lik, 1962). At the same time, the frequency of spin precession of hydrogen nuclei in a water sample were measured simultaneously in the same magnet, making it possible to determine the magnetic moment of the proton in nuclear magnetons. Unlike earlier methods, the present method makes it of the ions in the magnetic field, and deduce from this an exact theory of the motion of the ions in the instrument and to calculate the cyclotron frequency of the ions on the basis of experimental data without resorting to any supplementary

Card 1/3

ACCESSION RR: APSOOCH

assumptions: The results obtained by other investigators and in the present point are listed in Table 1 of the enclosure, which shows that the present method the Farsday number and found it to be 9,648.03 1 0.09 Coulomb/mole in the CP2 mans scale (against 9,651,42 - 0.09 in the old physical mass scale). This report was presented by Academician B. P. Konstantinov, Orig. art. has: 1 table

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. P. Infe Akademii nauk SSSR

SUBMITTED: 27May64

SUB CODE: RP NR REF SOV: OOI OTHER: OOF

ACCESSION N	₹: AP500091	1			
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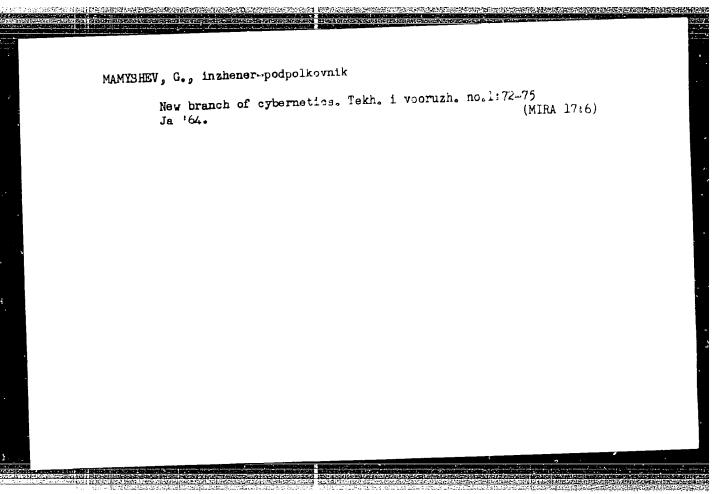
8/0056/65/048/002/0416/0428 L 40774-65 SHI(m)/I/SHA(m)-2 ACCESSION NR: AP5006487 AUTHORS: Mamyrin, B. A.; Frantauzov, A. A. TITLE: Measurement of the magnetic moment of the protons in units of the nuclear magneton SOURCE: Zhurnal eksperimental'noy teoreticheskoy fiziki, v. 48, no. 2, 1965, 416-428 TOPIC TAGS: proton, magnetic moment, mass spectrometer, magnetic ABSTRACT: A new technique is proposed for measuring the magnetic moment of the proton, in nuclear magneton units, whereby the cyclotron frequency is measured in a single revolution of the ions in the appare ratus. Earlier techniques did not possess this advantage. The procedure is based on the use of a magnetic resonance mass spectrometer, described by the authors earlier (PTE, no. 3, 114, 1962), whose Card 1/3

measurements were suring techniques tions introduced (without correction correction water) spread of the measerrors The total authors thank Prodone for support in the design of many useful discussion.	performed with He ⁺ , Ne ⁺ and Ne ⁺ ions. The meaperformed with He ⁺ , Ne ⁺ and Ne ⁺ ions. The meamone units of the apparatus, and the various corrected escribed. The magnetic moment of the proton on for the diamagnetic shielding of the hydrogen on for the diamagnetic shielding of the hydrogen is found to be 2.79279 ± 2 nuclear magnetons. The surements is equivalent to ±3.5 x 10 ⁻⁶ rms relative rms relative experimental error is ±6 x 10 ⁻⁶ . "The rms relative experimental error is ±6 x 10 ⁻⁶ . "The respective experimental error is ±6 x 10 ⁻⁶ . "The rms relative experimental error is ±6 x 10 ⁻⁶ . "The rms relative experimental error is ±6 x 10 ⁻⁶ . "The relative	
ASSOCIATION: Fi: nauk SSSR (Physic	ziko-tekhnicheskiy institut im. A. ziko-tekhnicheskiy institute. Academy of Sciences SSSR)	
Card 2/3		

STEN'KO, Mikhail Ivanovich; MAMYSH.A.I.; LISAKOVSKIY, I.N.

[The oldest in the South; outline history of the Taganrog

The oldest in the South; outline history of the regarding the Ship Repair Plant]Stareishii na IUge; ocherk istorii Tagan-Ship Repair Plant]Stareishii na IUge; ocherk istorii Tagan-Ship Repair Plant]Stareishii na IUge; ocherk istorii Tagan-Ship Repair Plant | Tagan-Donu, Rostovskoe knizhnoe izd-vo, 1961. 126 p. (MIRA 16:2) (Taganrog-Ships-Maintenance and repair)



MAMYSHEV, M.M., assistent

State of the thyroid gland in estecarticular tuberculosis. Nauch.

(MIRA 1793)

trudy SamMI 23:82-82 % 63

l. Iz kliniki obshihey khirurgii Samarkandskogo meditsinskogo
instituta i iz Kostono'uberkulezmoy bol'nitsy ineni Lenina,
Samarkand.

MAMYSHEV, T.I., inzh. (Taskkent); CHELNOKOVA, K.I., inzh. (Taskkent);

KARIMOV, T.Kh., irzh. (Taskkent)

Standard hoisting mechanisms for gates of hydraulic structures.

Gidr. i mel. 14 no.6:19-29 Je '62. (MIRA 15:9)

(Sluice gates)

(Automatic control)

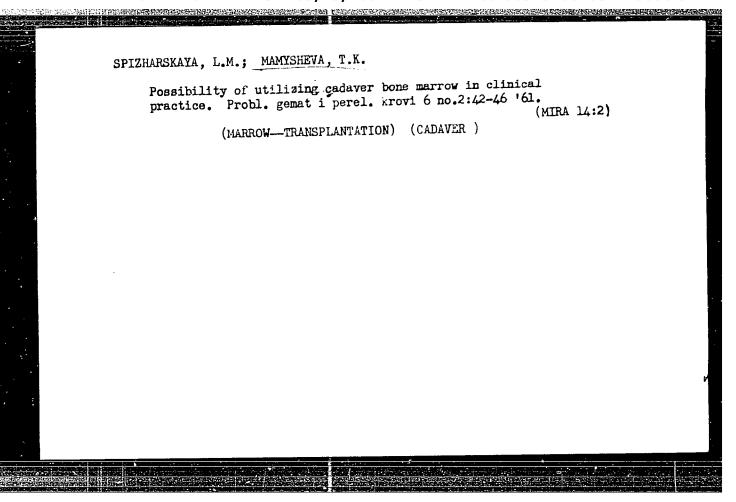
HAMTSHEVA, T.K.

Benign tumors of the duodenum. Vest.khir. 79 no.8:114-115 Ag '57.

(MIRA 10:10)

1. Iz khirurgicheskoy kliniki (zev. - prof. A.N.Filatov) Leningradskogo ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skogo instituta perelivaniya krovi. Adres avtora: Leningrad, 2-ya Sovetskaya ul., d.16, Institut perelivaniya krovi.

(DUODENUM, neoplasms benign tumors, surg.)



MAMYSHEVA. T.K. (Leningrad, prostekt Ogorodnikova, d. ed., kv.).

Procurement and preservation of bine marrow for clinical interests a review of Soviet and foreign literature. Vest. whir. Hi proliterature in N. 163.

1. Iz laboratorii konservirovaniya i paresadal organiya i kanay (zav. - prof. N.O.Kartashevskiy) Leningradokoso ordana Trudovar Krasniko Zhameni nauchno-issledovatel skogo instituta pereliveniya krovi.

MAKYSHEVA, Ye.V.

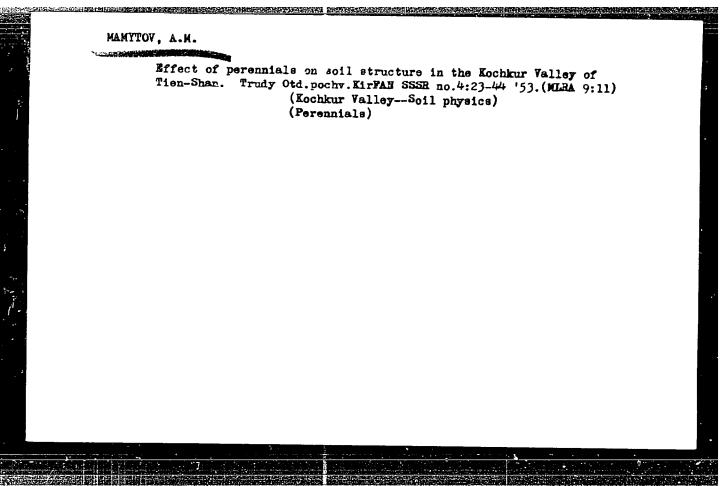
Metastases of cervical cancer to the bones. Akush. gin. no.3:80-81 May-June 1953. (CLML 25:1)

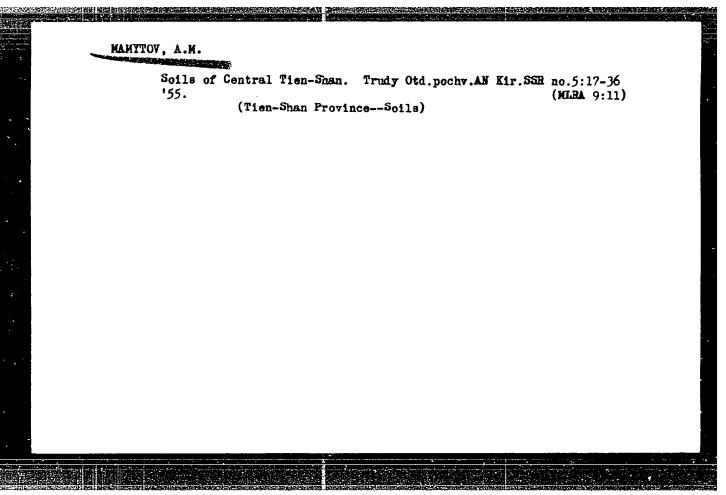
1. Of the Oncology Division (Head -- Docent G. M. Khaytsis) of Hospital 20th Anniversary of October, Leningrad.

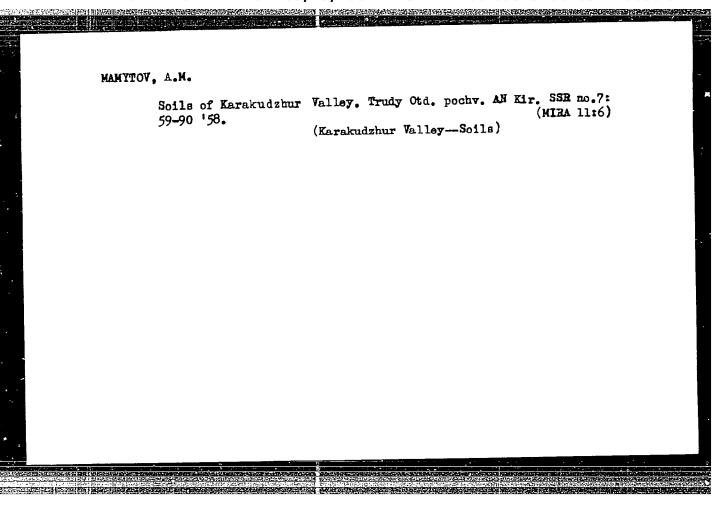
VALIDMAN, V.A., prof., zasluzhennyy deyntel nauki RSEN; MAMYSHEVA, Ye.V.

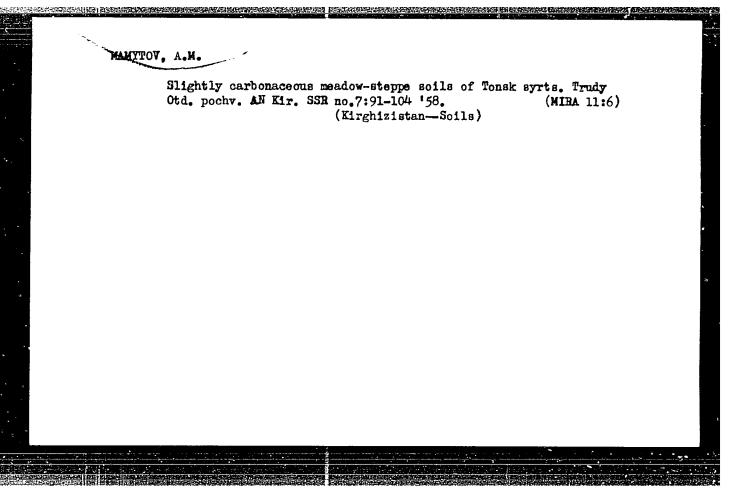
Foreword. Trudy LFM: 31 no.2:3-c 163. V.EA 17012.

1. Glavnyy vrach Bol'hitsy imeni Kuyhysheva, Leningrad (for Mamysheva).







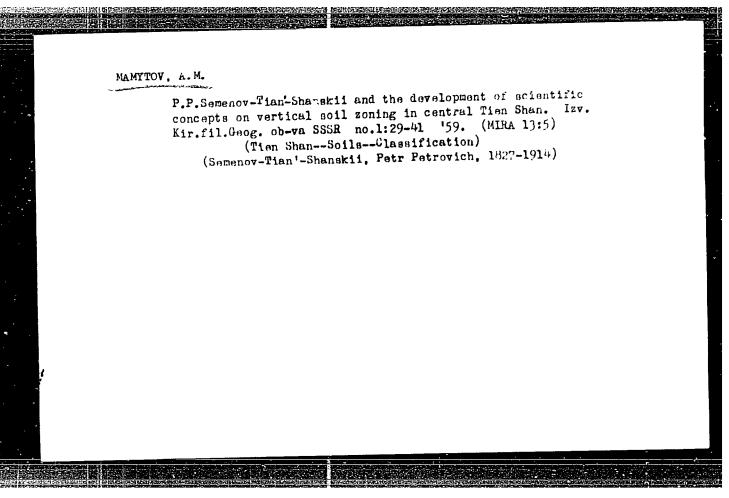


MAMYTOV, A.M., otv.red.; VOZHKYKO, I.V., red.izd-va; ANOKHINA, M. ... tekhn.red.

[Soils of the Chu Valley within the boundary of Kirghizisten]
Pochvy Chuiskoi vpediny v predelskh Kirgizskoi SSR. Frunze.
1959. 190 p. (MIRA 13:8)

1. Akademiya nauk Kirgizakoy SSR, Frunza. Otdel pochvovedeniya.

 Chlen-korrespondent AN Kirgizskoy SSR (for Memytov). (Chu Valley-Soils)

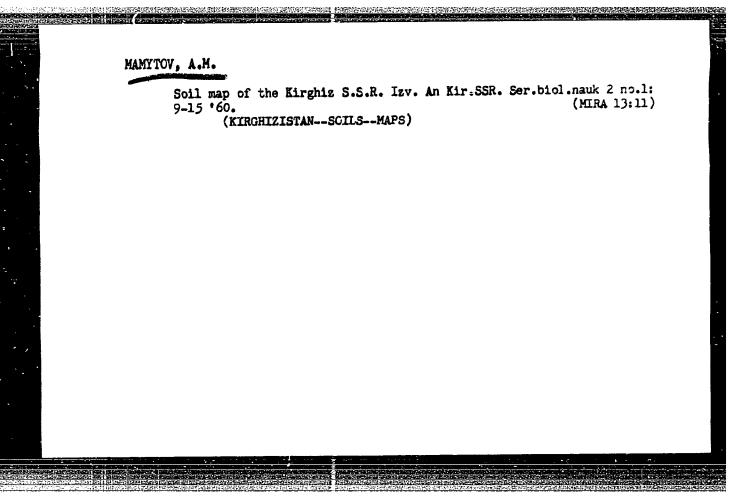


ROYCHENKO, G.I.; MANYTOV, A.M., otv.red.; Lavitus, B.I., red.izd-ve; ANOKHINA, N.G., tekhn.red.

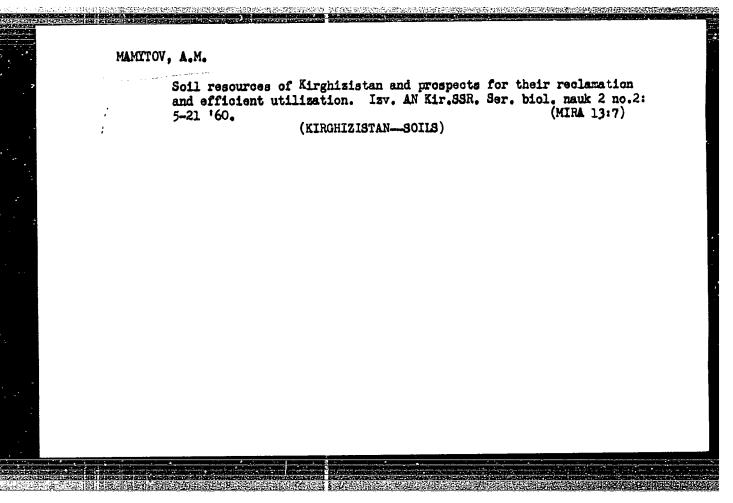
[Soils of southern Kirghizistan] Pochvy IUzhnoi Kirgizii.
Frunze, Akad.nauk Kirgizskoi SSR, Otdel pochvovedeniia, 1960.
231 p. (MIRA 13:12)

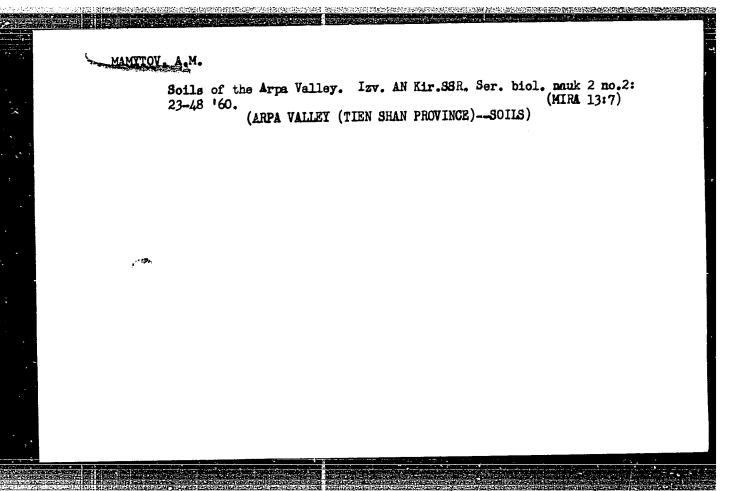
1. Chlen-korrespondent Akademii nauk Kirgizskoy SSR (for Mamytov).

(Kirghizisten--Soils)



Soil pr 17-26	rovinces of Kirghizistan. 60. (KIRGHIZISTANSOILS)	Izv. An Kir.SSR.	(MIRA 13:11
		·	





MAMYTOV, Aman Mamytovich; ROYCHENKO, Grigoriy Ivanovich; BAZHENOV, N.K., kand. sel'khoz. nauk, otv. red.; VOZHEYKO, I.V., red.izd-va; ANCKHINA, M.G., tekhn. red.

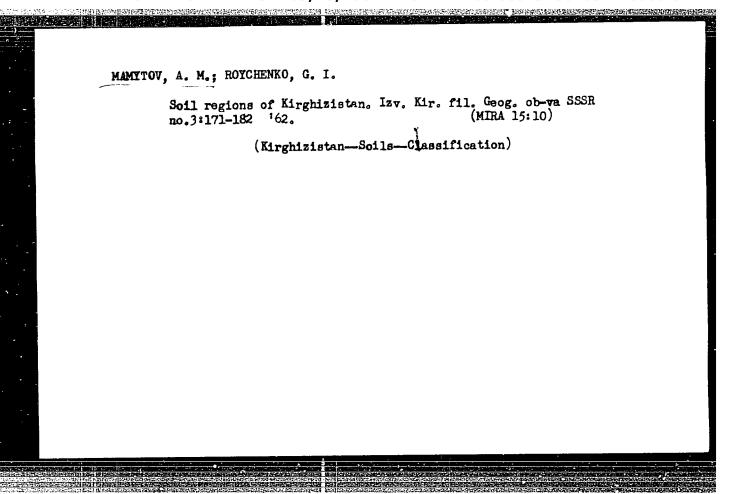
[Soil zoning in Kirghizistan] Pochvennoe raionirovanie Kirgizii.
Frunze, Izd-vo AN Kirgizskoi SSR, 1961. 153 p. (MIRA 14:6)

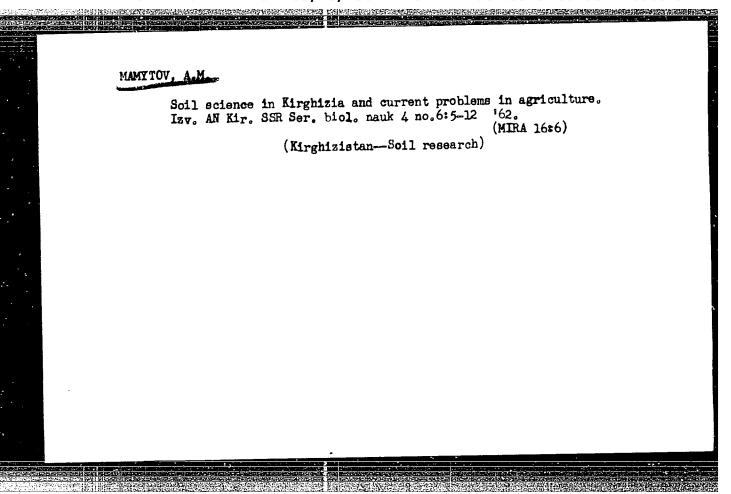
(Kirghizistan—Soils)

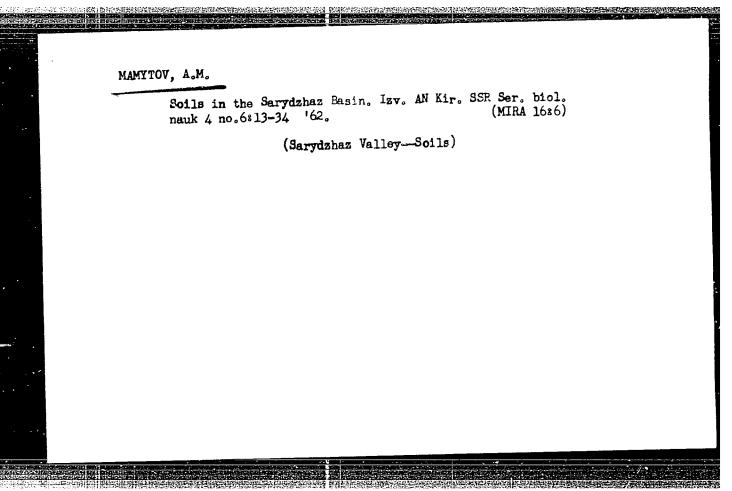
MAMYTOV, A.M.

Soil maps and their importance in the improvement of land cultivation. Zemledelie 24 no.10:39-42 0 '62. (MIRA 15:11)

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